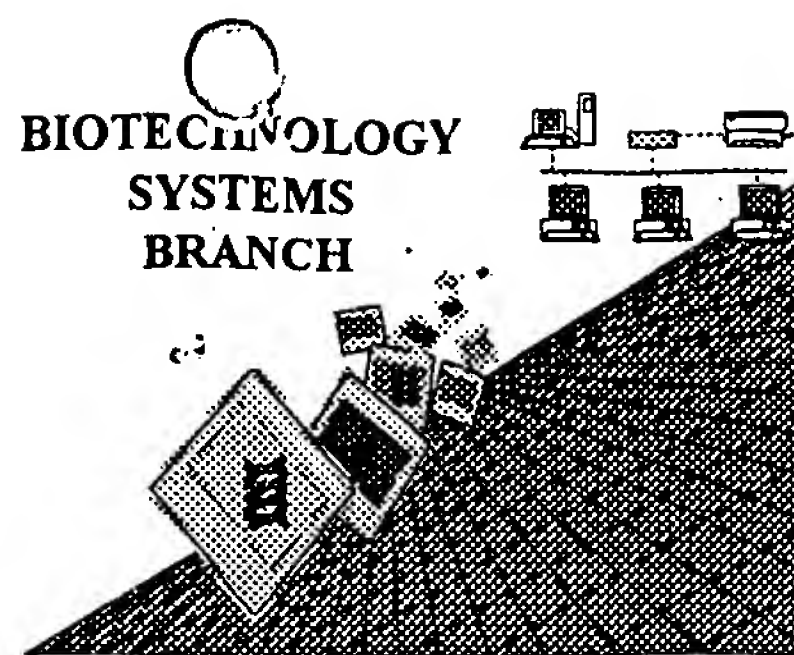


RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



#17/52
4-9-01

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/265,540

Source: 1647

Date Processed by STIC: 3/27/2001

RECEIVED

APR 04 2001

TECH CENTER 1600/290

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/265,5400

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1647

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/265,540D

DATE: 03/27/2001

TIME: 10:50:04

Input Set : A:\804k.app

Output Set: N:\CRF3\03272001\I265540D.raw

Does Not Comply
Corrected Diskette Needed*see pp. 2-3, 5*

3 <110> APPLICANT: Parham, Christi L.
 4 Moore, Kevin W.
 5 Murgolo, Nicholas J.
 6 Bazan, J. Fernando
 8 <120> TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
 10 <130> FILE REFERENCE: DX0804K
 12 <140> CURRENT APPLICATION NUMBER: 09/265,540D
 13 <141> CURRENT FILING DATE: 1999-03-08
 15 <160> NUMBER OF SEQ ID NOS: 6
 17 <170> SOFTWARE: PatentIn Ver. 2.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1381
 21 <212> TYPE: DNA
 22 <213> ORGANISM: primate
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (132)..(1064)
 28 <220> FEATURE:
 29 <221> NAME/KEY: unsure
 30 <222> LOCATION: (567)
 31 <223> OTHER INFORMATION: n at position 567; n may be A, C, G, or T;
 32 translated amino acid depends on genetic code
 34 <220> FEATURE:
 35 <221> NAME/KEY: unsure
 36 <222> LOCATION: (573)
 37 <223> OTHER INFORMATION: n at position 573; n may be A, C, G, or T;
 38 translated amino acid depends on genetic code
 40 <220> FEATURE:
 41 <221> NAME/KEY: unsure
 42 <222> LOCATION: (1336)
 43 <223> OTHER INFORMATION: n at position 1336; n may be A, C, G, or T;
 44 translated amino acid depends on genetic code
 46 <220> FEATURE:
 47 <221> NAME/KEY: unsure
 48 <222> LOCATION: (1342)
 49 <223> OTHER INFORMATION: n at position 1342; n may be A, C, G, or T;
 50 translated amino acid depends on genetic code
 52 <220> FEATURE:
 53 <221> NAME/KEY: unsure
 54 <222> LOCATION: (1369)
 55 <223> OTHER INFORMATION: n at position 1369; n may be A, C, G, or T;
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 58 <400> SEQUENCE: 1
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 61 agatggctga gatggacaga atgctttatt ttggaaagaa acaatgttct aggtcaaact 120
 63 gagtctacca a atg cag act ttc aca atg gtt cta gaa gaa atc tgg aca 170
 64 Met Gln Thr Phe Thr Met Val Leu Glu Glu Ile Trp Thr

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/265,540D

DATE: 03/27/2001

TIME: 10:50:04

Input Set : A:\804k.app

Output Set: N:\CRF3\03272001\I265540D.raw

65		1		5		10		
67	agt	ctt	ttc	atg	tgg	ttt	ttc	tac
68	Ser	Leu	Phe	Met	Trp	Phe	Phe	Tyr
69	15					20		
71	gat	gaa	gtg	gcc	att	ctg	cct	gcc
72	Asp	Glu	Val	Ala	Ile	Leu	Pro	Ala
73	30					35		
75	acc	aac	atg	aag	cat	ctc	ttg	atg
76	Thr	Asn	Met	Lys	His	Leu	Leu	Met
77	50					55		
79	gaa	aca	gtg	tac	tat	tct	gtc	gaa
80	Glu	Thr	Val	Tyr	Tyr	Ser	Val	Glu
81	65					70		
83	tac	acg	agc	cac	atc	tgg	atc	ccc
84	Tyr	Thr	Ser	His	Ile	Trp	Ile	Pro
85	80					85		
87	ggt	cct	gag	tgt	gat	gtc	act	gat
88	Gly	Pro	Glu	Cys	Asp	Val	Thr	Asp
89	95					100		
91	aac	ctt	cgt	gtc	agg	gcc	aca	ttg
92	Asn	Leu	Arg	Val	Arg	Ala	Thr	Leu
93	110					115		
95	atc	ctg	aag	cat	ccc	ttt	aat	aga
96	Ile	Leu	Lys	His	Pro	Phe	Asn	Arg
97	130					135		
W-->	99	ggg	atg	gag	atc	ncc	aaa	nat
W-->	100	Gly	Met	Glu	Ile	Xaa	Lys	Xaa
	101					145		
W-->	103	gac	ctg	ggg	ccc	cag	ttt	gag
W-->	104	Asp	Leu	Gly	Pro	Gln	Phe	Glu
	105					160		
	107	cct	ggt	gcc	gag	gaa	cat	gtc
	108	Pro	Gly	Ala	Glu	Glu	His	Val
	109	175				180		
	111	gtg	cac	cta	gaa	acc	atg	gag
	112	Val	His	Leu	Glu	Thr	Met	Glu
	113	190				195		
	115	cag	aca	ttc	gtg	aag	gcc	att
W-->	116	Gln	Thr	Phe	Val	Lys	Ala	Ile
	117					210		
	119	gaa	tgt	gtg	gar	gtg	caa	gga
W-->	120	Glu	Cys	Val	Xaa	Val	Gln	Gly
	121					225		
	123	ttt	gcc	ttt	gtt	ggc	ttc	atg
	124	Phe	Ala	Phe	Val	Gly	Phe	Met
	125	240				245		
	127	gtc	tgg	aaa	atg	ggc	cgg	ctg
	128	Val	Trp	Lys	Met	Gly	Arg	Leu
	129	255				260		

*more amino acids directly
under respective
codon*

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/265,540D

DATE: 03/27/2001

TIME: 10:50:04

Input Set : A:\804k.app

Output Set: N:\CRF3\03272001\I265540D.raw

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 132 Val Leu Pro Asp Thr Leu Lys Ile Thr Asn Ser Pro Gln Lys Leu Ile
 133 270 275 280 285
 135 agc tgc aga agg gag gag gtg gat gcc tgt gcc acg gct gtg atg tct 1034
 136 Ser Cys Arg Arg Glu Glu Val Asp Ala Cys Ala Thr Ala Val Met Ser
 137 290 295 300
 139 cct gag gaa ctc ctc agg gcc tgg atc tca taggtttgcg gaagggccca 1084
 140 Pro Glu Glu Leu Arg Ala Trp Ile Ser
 141 305 310
 143 ggtgaagccg agaacctggt ctgcatgaca tggaaaccat gaggggacaa gttgtgtttc 1144
 145 tgttttccgc cacggacaag ggatgagaga agtaggaaga gcctgttgct tacaagtcta 1204
 147 gaagcaacca tcagaggcag ggtggtttgt ckaacagaac aaytgactga ggytakrggg 1264
 149 gwtgtgacct ctgactktg ggstkscayt tgcwtggytg agcaacctg ggaaaagtga 1324
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 161 1 5 10 15
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 164 20 25 30
 166 Ala Ile Leu Pro Ala Pro Gln Asn Leu Ser Val Leu Ser Thr Asn Met
 167 35 40 45
 169 Lys His Leu Leu Met Trp Ser Pro Val Ile Ala Pro Gly Glu Thr Val
 170 50 55 60
 172 Tyr Tyr Ser Val Glu Tyr Gln Gly Glu Tyr Glu Ser Leu Tyr Thr Ser
 173 65 70 75 80
 175 His Ile Trp Ile Pro Ser Ser Trp Cys Ser Leu Thr Glu Gly Pro Glu
 176 85 90 95
 178 Cys Asp Val Thr Asp Asp Ile Thr Ala Thr Val Pro Tyr Asn Leu Arg
 179 100 105 110
 181 Val Arg Ala Thr Leu Gly Ser Gln Thr Ser Ala Trp Ser Ile Leu Lys
 182 115 120 125
 184 His Pro Phe Asn Arg Asn Ser Thr Ile Leu Thr Arg Pro Gly Met Glu
 185 130 135 140
 W--> 187 Ile Xaa Lys Xaa Gly Phe His Leu Val Ile Glu Leu Glu Asp Leu Gly
 188 145 150 155 160
 W--> 190 Pro Gln Phe Glu Phe Leu Val Ala Tyr Trp Xaa Arg Glu Pro Gly Ala
 191 165 170 175
 193 Glu Glu His Val Lys Met Val Arg Ser Gly Gly Ile Pro Val His Leu
 194 180 185 190
 196 Glu Thr Met Glu Pro Gly Ala Ala Tyr Cys Val Lys Ala Gln Thr Phe
 197 195 200 205
 W--> 199 Val Lys Ala Ile Gly Xaa Tyr Ser Ala Phe Ser Gln Thr Glu Cys Val
 200 210 215 220
 W--> 202 Xaa Val Gln Gly Glu Ala Ile Pro Leu Val Leu Ala Leu Phe Ala Phe
 203 225 230 235 240

all item 10 on
 Error Summary
 Sheet

RAW SEQUENCE LISTING

DATE: 03/27/2001

PATENT APPLICATION: US/09/265,540D

TIME: 10:50:04

Input Set : A:\804k.app

Output Set: N:\CRF3\03272001\I265540D.raw

205 Val Gly Phe Met Leu Ile Leu Val Val Val Pro Leu Phe Val Trp Lys
 206 245 250 255
 208 Met Gly Arg Leu Leu Gln Tyr Ser Cys Cys Pro Val Val Val Leu Pro
 209 260 265 270
 211 Asp Thr Leu Lys Ile Thr Asn Ser Pro Gln Lys Leu Ile Ser Cys Arg
 212 275 280 285
 214 Arg Glu Glu Val Asp Ala Cys Ala Thr Ala Val Met Ser Pro Glu Glu
 215 290 295 300
 217 Leu Leu Arg Ala Trp Ile Ser
 218 305 310
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 222 <211> LENGTH: 1244
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 224 <213> ORGANISM: primate
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 227 <221> NAME/KEY: CDS
 228 <222> LOCATION: (2)..(694)
 230 <220> FEATURE:
 231 <221> NAME/KEY: unsure
 232 <222> LOCATION: (193)
 234 <400> SEQUENCE: 3
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 236 Arg Val Asp Pro Arg Val Arg Leu Val Ser Pro Trp Leu Thr Val Pro
 237 1 5 10 15
 239 tgg ttc ctg tcc tgt tgg aat gtt acc att ggg cct cct gag agc atc 97
 240 Trp Phe Leu Ser Cys Trp Asn Val Thr Ile Gly Pro Pro Glu Ser Ile
 241 20 25 30
 243 tgg gtg acg ccg gga gaa gcc tcc ctc atc atc agg ttc tcc tct ccc 145
 244 Trp Val Thr Pro Gly Glu Ala Ser Leu Ile Ile Arg Phe Ser Ser Pro
 245 35 40 45
 247 ttc gac gtc cct ccc aac ctg ggc tat ttc cag tac tat gtc cat tay 193
 248 Phe Asp Val Pro Pro Asn Leu Gly Tyr Phe Gln Tyr Tyr Val His Xaa
 249 50 55 60
 251 tgg gaa aag gcg gga atc caa aag gtt aaa ggt cct ttc aag agc aac 241
 252 Trp Glu Lys Ala Gly Ile Gln Lys Val Lys Gly Pro Phe Lys Ser Asn
 253 65 70 75 80
 255 tcc atc gtg ttg gat ggc ttg aga ccc tta aga gaa tac tgt tta caa 289
 256 Ser Ile Val Leu Asp Gly Leu Arg Pro Leu Arg Glu Tyr Cys Leu Gln
 257 85 90 95
 259 gtg aag gcg cat ctc ttt cgc aca tcc tgc aac acc tct agg ccc ggc 337
 260 Val Lys Ala His Leu Phe Arg Thr Ser Cys Asn Thr Ser Arg Pro Gly
 261 100 105 110
 263 cgc tta agc aac ata act tgc tac gaa aca atg atg gat gcc act acg 385
 264 Arg Leu Ser Asn Ile Thr Cys Tyr Glu Thr Met Met Asp Ala Thr Thr
 265 115 120 125
 267 aag ctt caa caa gtc atc ctc atc gcc gtg gga gtc ttt ctg tcg ctg 433
 268 Lys Leu Gln Gln Val Ile Leu Ile Ala Val Gly Val Phe Leu Ser Leu
 269 130 135 140
 271 gcg gcg ctg gcg ggg ggc tgt ttc ttc ctg gtg ctg aga tac aaa ggc 481

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/265,540D

DATE: 03/27/2001

TIME: 10:50:04

Input Set : A:\804k.app

Output Set: N:\CRF3\03272001\I265540D.raw

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272 Ala Ala Leu Ala Gly Gly Cys Phe Phe Leu Val Leu Arg Tyr Lys Gly
273 145 150 155 160
275 ctg gtg aaa tac tgg ttt cac tct ccg cca agc atc cca tca caa atc 529
276 Leu Val Lys Tyr Trp Phe His Ser Pro Pro Ser Ile Pro Ser Gln Ile
277 165 170 175
279 gaa gag tat ctg aag gac ccg agc cag cct atc cta gag gcc ctg gac 577
280 Glu Glu Tyr Leu Lys Asp Pro Ser Gln Pro Ile Leu Glu Ala Leu Asp
281 180 185 190
283 aag gac acg tca cca aca gat gat gcc tgg gac ttg gtg tct gtt gtt 625
284 Lys Asp Thr Ser Pro Thr Asp Asp Ala Trp Asp Leu Val Ser Val Val
285 195 200 205
287 gca ttt cca gca aag gag caa gaa gat gtt ccc caa agc act ttg acc 673
288 Ala Phe Pro Ala Lys Glu Gln Asp Val Pro Gln Ser Thr Leu Thr
289 210 215 220
291 caa aac tct ggt gcg gtc tgc tagcctgtgg ggtaagggt ctgagccgag 724
292 Gln Asn Ser Gly Ala Val Cys
293 225 230
295 gaagctgctg atgtccatgt cagcacttta tggaatccgg tcctccattt tcctgtcccc 784
297 aaaaggcccg tcagtgcctg tgaagatgta acgggtctca tgggggagac aagcttattg 844
299 atttttttct tcaaaactaag agttttctaa tcatacgcgt ttttagaata attctacaga 904
301 tatgtccccc aaagattaag atttctctta aacactaaaa agacatgtaa ttatttggtta 964
303 gcaaattgggc gtctggcacg cctctgacac tttttcgtca gcagccagga cagaggtcc 1024
305 cctccttgat gaagcccctc gggcagacca tgtcacctgt cccagcctgc cccaagaagg 1084
307 gacattaagt ggcccttctt catatccaaa cacctggctt gaaatgtgat tagccctgta 1144
309 aatagtttca cagagattaa gccttttttt cccccaagtt aggaataaaa gactataatt 1204
311 aactttttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1244
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315 <211> LENGTH: 231
316 <212> TYPE: PRT
317 <213> ORGANISM: primate
319 <400> SEQUENCE: 4
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324 20 25 30
326 Trp Val Thr Pro Gly Glu Ala Ser Leu Ile Ile Arg Phe Ser Ser Pro
327 35 40 45
W--> 329 Phe Asp Val Pro Pro Asn Leu Gly Tyr Phe Gln Tyr Tyr Val His Xaa
330 50 55 60
332 Trp Glu Lys Ala Gly Ile Gln Lys Val Lys Gly Pro Phe Lys Ser Asn
333 65 70 75 80
335 Ser Ile Val Leu Asp Gly Leu Arg Pro Leu Arg Glu Tyr Cys Leu Gln
336 85 90 95
338 Val Lys Ala His Leu Phe Arg Thr Ser Cys Asn Thr Ser Arg Pro Gly
339 100 105 110
341 Arg Leu Ser Asn Ile Thr Cys Tyr Glu Thr Met Met Asp Ala Thr Thr
342 115 120 125
344 Lys Leu Gln Gln Val Ile Leu Ile Ala Val Gly Val Phe Leu Ser Leu
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see item 10

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/265,540D

DATE: 03/27/2001

TIME: 10:50:05

Input Set : A:\804k.app

Output Set: N:\CRF3\03272001\I265540D.raw

L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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 L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
 L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
 L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
 L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
 L:187 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
 L:187 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
 L:187 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
 L:187 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
 L:187 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
 L:190 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
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 L:199 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
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 L:248 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3
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 L:329 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:4
 L:329 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4